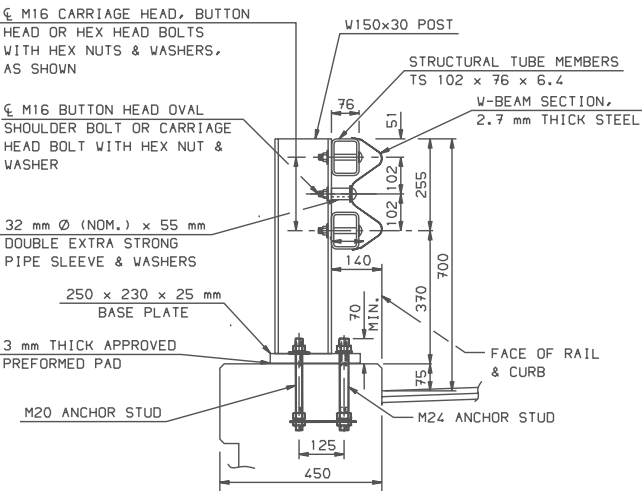
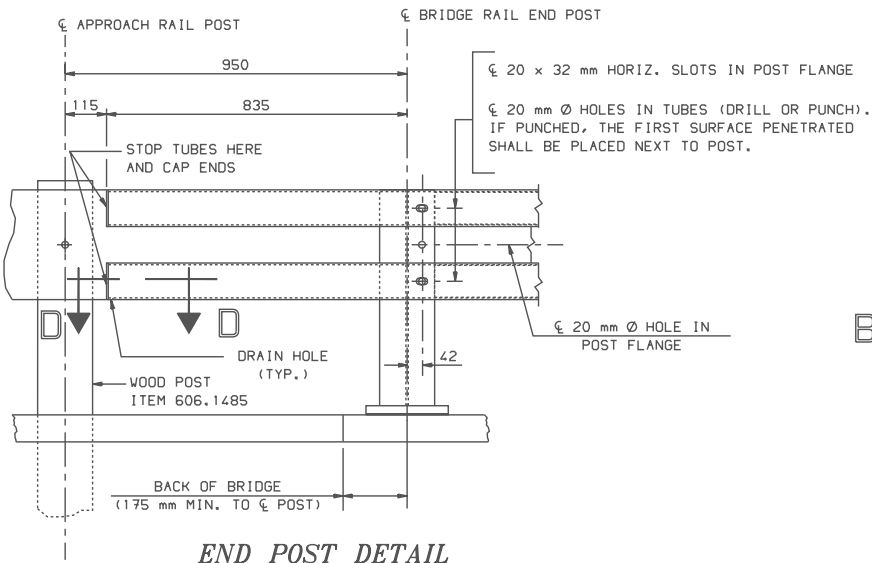


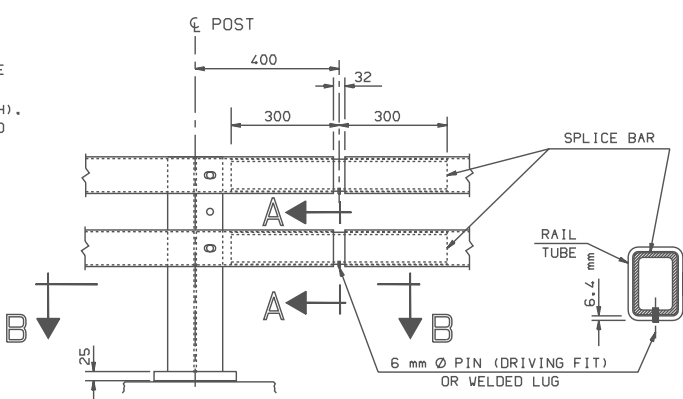
STANDARD NO. BR-R11M



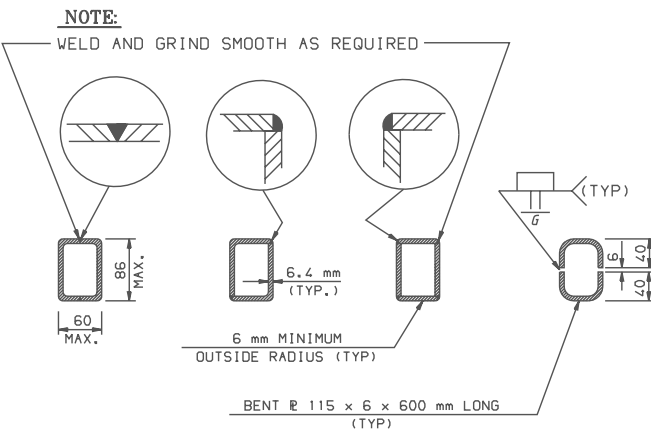
BRIDGE RAIL DETAIL
SCALE 1:10



END POST DETAIL
SCALE 1:10



TYPICAL SPLICE



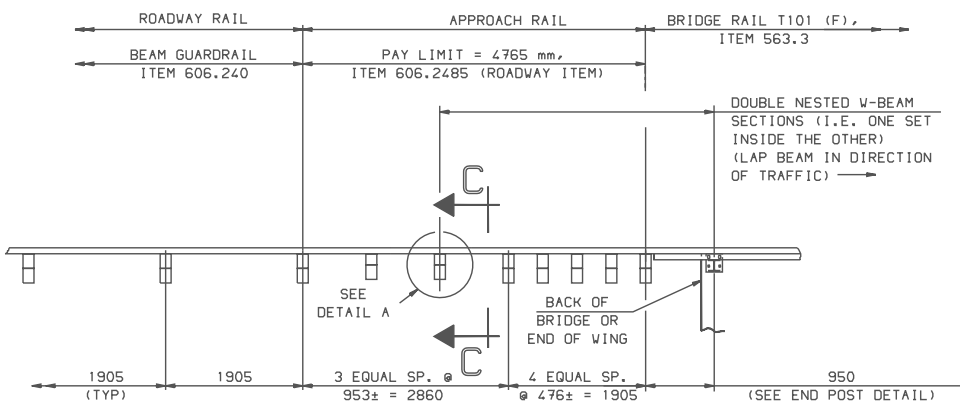
SECTION A-A

SPLICE BAR FABRICATION OPTIONS

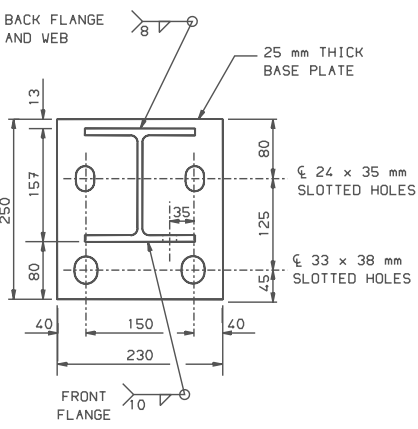
NOTE: THE DIFFERENCE BETWEEN THE OUTSIDE DIMENSIONS OF THE SPLICE BAR AND THE INSIDE DIMENSIONS OF THE RAIL SHALL BE APPROXIMATELY 3 mm (NOT TO EXCEED 5 mm) ALONG EITHER AXIS TO PERMIT CLEARANCE FOR INSIDE WELD FLASH.

NOTE: OTHER SECTIONS OF EQUAL OR GREATER STRENGTH ARE ACCEPTABLE FOR SPLICE BARS.

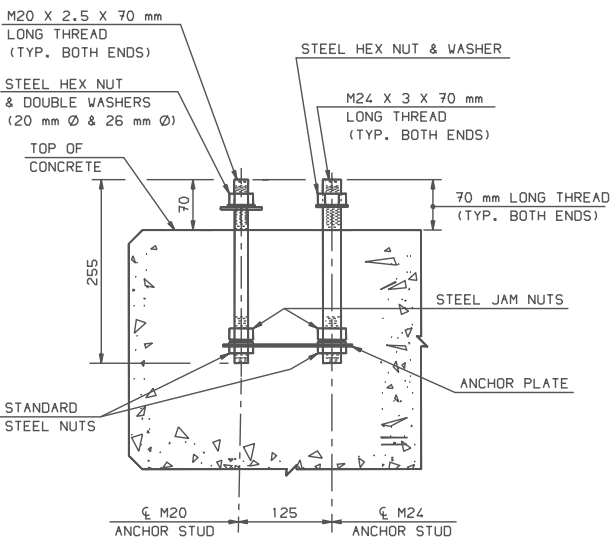
SPLICE BAR DETAILS
NOT TO SCALE



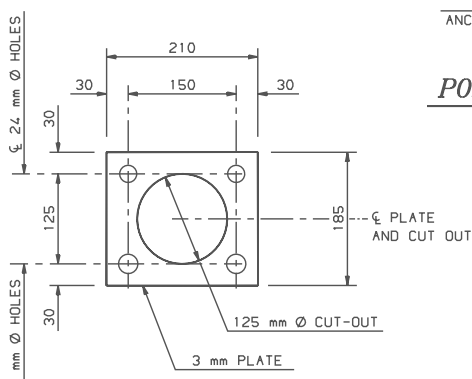
APPROACH RAIL LAYOUT
SCALE 1:50



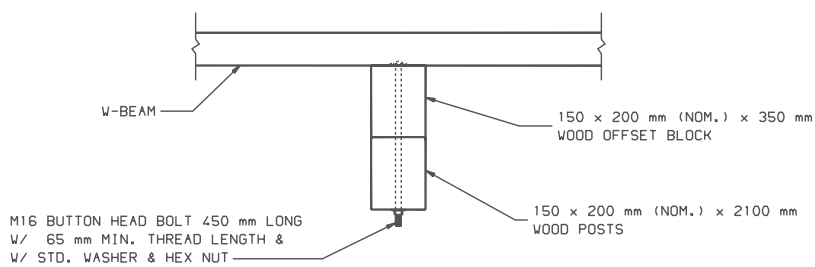
BASE PLATE DETAIL (SECTION B-B)
SCALE 1:5



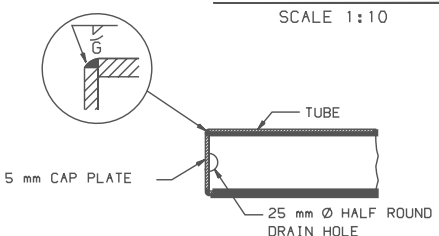
POST ANCHOR ASSEMBLY
SCALE: 1:5



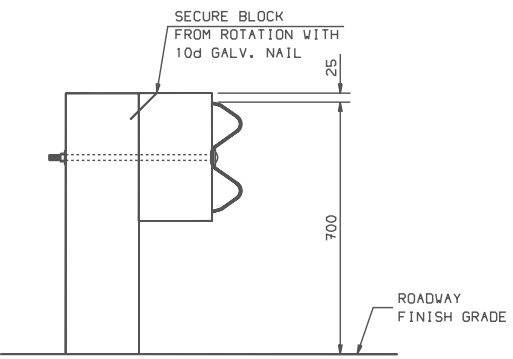
ANCHOR PLATE DETAIL
SCALE: 1:5



DETAIL "A"
SCALE 1:10



RAIL CAP DETAIL (SECTION D-D)
SCALE 1:5



SECTION C-C
SCALE: 1:10

GENERAL NOTES:

- ITEM 563.3, BRIDGE RAIL T101 (F), SHALL INCLUDE POSTS, BASE PLATES, ANCHOR PLATES, ANCHOR BOLTS, PREFORMED PADS, RAIL ASSEMBLY BOLTS, NUTS WASHERS, STRUCTURAL TUBING, SPLICE BARS, PIPE SLEEVES, AND W-BEAM SECTIONS
 - ASTM A588M : POSTS, BASE PLATES
 - ASTM A500 GRADE B (PAINTED) OR ASTM A588M (UNPAINTED) OR ASTM A847M (UNPAINTED) : STRUCTURAL TUBING
 - ASTM A36M (PAINTED) : PIPE SLEEVES, RAIL SPLICE BARS, & ANCHOR PLATES
 - ASTM 449 (GALV): ANCHOR STUDS WITH STANDARD NUTS AND HARDENED STEEL COMMERCIAL TYPE A PLAIN WIDE WASHERS
 - ASTM A325M : TYPE 3 : RAIL BOLTS, NUTS, & WASHERS
 - AASHTO M180 TYPE IV : W-BEAM SECTION
- MEMBERS TO BE PAINTED SHALL BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH AASHTO M111 (ASTM A123) AND THEN OUTSIDE SURFACES SHALL BE SHOP PAINTED WITH ONE COAT OF 708 NH 3.81, HIGH BUILD EPOXY POLYAMIDE (4-6 DFT) AND ONE COAT OF 708 NH 3.81, ALPHALTIC POLYURETHANE (1.5 TO 2.5 DFT), DARK BROWN. (REFER TO SPECIAL PROVISIONS FOR SECTION 550 FOR PAINT SPECIFICATIONS)
- HOLES IN BASE PLATES SHALL BE FILLED FLUSH WITH ITEM 562.1, ELASTOMERIC SEALANT AFTER RAIL INSTALLATION.
- STRUCTURAL TUBING SHALL BE SUPPLIED AS ONE PIECE FOR BRIDGE RAIL 12 METERS OR LESS IN LENGTH. IN OTHER CASES, TUBING SHALL BE SPLICED WITH A SPLICE BAR (SEE SPLICE BAR DETAIL). NO TRANSVERSE BUTT WELDS ARE PERMITTED ON RAIL TUBING WITHIN A CONTINUOUS LENGTH.
- EACH PIECE OF RAIL TUBING SHALL BE ATTACHED TO A MINIMUM OF THREE POSTS.
- FOR BRIDGE RAIL POST SPACING, SEE BRIDGE RAIL LAYOUT. THE MAXIMUM BRIDGE RAIL POST SPACING SHALL BE 2540 mm. A POST SPACING OF 2540 mm OR 1905 mm IS RECOMMENDED WHENEVER POSSIBLE FOR USE WITH 7620 mm SECTIONS OF THE STANDARD W-BEAM RAIL.
- PREFORMED BEARING PADS SHALL CONFORM TO AASHTO M251.
- NUTS FOR THREADED ANCHOR STUDS CONNECTING THE BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- THIS RAIL SYSTEM HAS BEEN SUCCESSFULLY EVALUATED BY FULL-SCALE CRASH TESTS TO MEET NCHRP REPORT 230 SL-2 CRITERIA. (TEXAS TRAFFIC RAIL TYPE T101, REVISED 9/89)

(BROWN - 75 mm CURB REVEAL)

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.

TEXAS T101 BRIDGE & APPROACH RAIL (STEEL)

METRIC
STANDARD PLANS

STANDARD NO.
BR-R11M

THESE PLANS REDUCED
APPROXIMATELY 1/2 SCALE

WINDOW NAME	*FGB FILE NAME	SHEET SCALE
BR-R11M	BR-MSTNDS-NHBOOK	AS NOTED

REVISION DATES
1/02/01